

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/033335 A1

(51) International Patent Classification⁷: **B65D 51/24**
// A61J 9/04

(21) International Application Number:
PCT/DK2002/000684

(22) International Filing Date: 11 October 2002 (11.10.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **PI-DESIGN AG** [CH/CH]; Kantonstrasse, CH-6234 Triengen/LU (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BODUM, Jørgen** [DK/CH]; St. Niklausen Strasse 23, CH-6005 St. Niklausen (CH).

(74) Agent: **CHAS.HUDE A/S**; H.C. Andersens Boulevard 33, DK-1780 Copenhagen V (DK).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

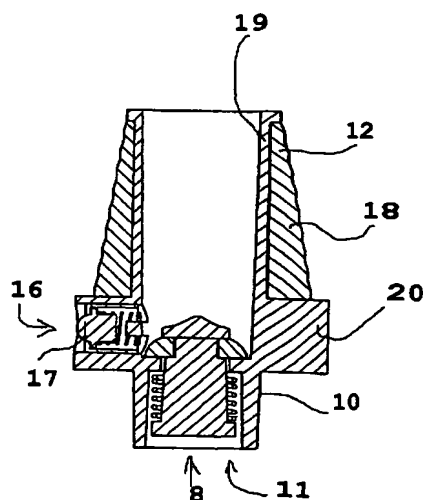
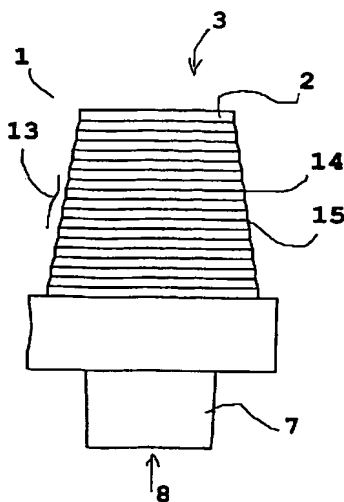
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ADAPTER AND ITS USE



(57) Abstract: An adapter connecting between a rigid container with one drain opening and a liquid demanding device, comprises one attachment port for sealing connection to the container's drain opening and a valve connecting to the flow-passage between the attachment port and connection means for the liquid demanding device, for equalizing pressure inside the container. Characterizing means are: attachment means (2) to keep a container sealingly attached in the drain opening; connection means (7) having externally a prismatic or cylindrical form (10) fitting in a corresponding deep hole in the device, wherein a sealing to the prism or cylinder's surface between the interior of the deep hole and the surroundings is established; and a take-out valve (11) in the flow direction in the connection port (8), being opened by means in the device (9) after sealing to the prism or cylinder (10) has been established. Easy connection to various containers and no spillage when not in use are the main benefits.